

Application Serial No. 10/648,012
Response to Office Action of March 30, 2007
Attorney Docket No. W003-4000

AMENDMENT TO CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application. Six new claims, 54-59 have been added.

Listing of Claims:

Claims 1 - 18 (canceled).

19. (Currently Amended) A wireless digital audio system, comprising:
at least one audio source to produce an audio output representative of music;
at least one digital audio transmitter operatively coupled to said at least one audio source, said at least one audio transmitter comprising:
a first analog low pass filter receiving the audio output from said at least one audio source;
a digital low pass filter;
an analog-to-digital converter (ADC) operatively coupled between said first analog and digital low pass filters;
a first encoder receiving output from said digital low pass filter and being configured to reduce intersymbol interference (ISI);
a second channel encoder operatively coupled to said first encoder and adapted to reduce transmission errors;
a digital modulator operatively coupled to said second channel encoder;
and
a differential phase shift key (DPSK) module receiving output from said digital modulator and a unique user code bit sequence and being configured for direct sequence spread spectrum (DSSS) communication, said DPSK module transmitting a corresponding DSSS signal having said audio output representative of the music and the unique user code bit sequence;
at least one audio receiver configured for digital wireless communication with said at least one audio transmitter ~~and utilizing embedded fuzzy logic to optimize digital signal processing,~~ said at least one audio receiver comprising:

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